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Mfr. of highly polymerised polyester with low acetaldehyde content - by solid phase polymerisation with heat of pre-crystallised polyester previously subjected to moisture conditioning

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Abstract (Basic): JP 59219328 A

Method comprises subjecting a polyester having ethylene terephthalate units as principal repeat units, whose intrinsic viscosity is 0.4 or more and density is 1.35 or less, to (1) moisture conditioning so that the moisture content is at least 0.2 wt%, (2) a process of pre-crystallisation at 140 deg.C or higher, and (3) subjecting the resultant to polymerisation at a solid phase at a temp. of 180-240 deg.C in an inert gas atmos. or reduced pressure.

ADVANTAGE - The content of acetaldehyde in the resulting pellet can be reduced quickly and effectively. The highly polymerised polyester prep'd. by this method is suitable for packing material of foodstuff, medicinal preps. etc.

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Derwent Class: A23

International Patent Class (Additional): C08G-063/26